

# ASSOCIATES

## **18TH SPACE CONTROL SQUADRON**

12 Laboratory Rd.  
(661) 277-8672 or DSN 527-8672

18th SPCS, located at Edwards since 1994, is an Air Force Space Command geographically separated unit of the 21st Operations Group, Peterson Air Force Base, Colo. The mission of the squadron is direct support to the U.S. commander in chief and Space Command's space control mission through optical space surveillance, including detection, tracking, identification and special signature collection of near-space and deep-space objects.

To accomplish the unit's mission, the squadron controls a network of optical sensors in four worldwide locations. Three ground-based electro-optical deep-space surveillance, or GEODSS, units are located in Socorro, N.M.; Diego Garcia; and Maui, Hawaii. In addition to GEODSS sensors, the squadron operates the Maui Space Surveillance System and the transportable optical system, Moron Air Base, Spain. 18th SPCS operators control GEODSS remote telescopes from Edwards.

## **31 TEST AND EVALUATION SQUADRON**

60 N. Wolfe Ave.  
(661) 277-2366 or DSN 527-2366

The 31st Test and Evaluation Squadron, established in 1917, is the home of Air Combat Command Operation's maintenance, engineering and air crew experts who test, assess and evaluate effectiveness and suitability of new U.S. Air Force weapons systems designs.

The Desert Pirates, as they are called, are the sole ACC organization at Edwards and are part of the 53rd Test and Evaluation Group, Nellis Air Force Base, Nev., and the 53rd Wing, Eglin Air Force Base, Fla.

The 31st represents the operational combat user during early flight testing to ensure the warfighter receives the world's best operational systems.

The unit is manned with operations, maintenance and engineering experts who plan and conduct tests, evaluate effectiveness and suitability and influence system designs with an operational perspective. Unit personnel are integrated into the F/A-22, B-1, B-2, B-52, Global Hawk and Airborne Laser programs. Their results and conclusions support Department of Defense acquisition, deployment and employment decisions.

## **AIR FORCE AUDIT AGENCY AT EDWARDS**

90 Farrell Dr.  
(661) 277-2899 or DSN 527-2899

The Edwards Area Audit Team provides the Air Force Flight Test Center, Air Force Research Laboratory's Propulsion Directorate, Plant 42 and March Air Reserve Base, Calif., independent, objective and quality audit services. These audit services promote the economy and efficiency of operations; evaluate programs and activities to assist management in achieving desired results; and assess fiduciary stewardship and accuracy of financial reporting.

The Airborne Laser's System Integration Lab (left) and Ground Pressure Recovery Assembly at Edward's South Base Complex.

Courtesy photo



## **AIR EDUCATION AND TRAINING COMMAND, STUDIES AND ANALYSIS SQUADRON, DETACHMENT 1**

118 South Wolfe Ave.  
(661) 277-3501 or DSN 527-3501

Detachment 1, AETC SAS is a component of headquarters AETC and supports all agencies in the Department of Defense and NATO in the development, assessment and analysis of training systems during the acquisition process. At Edwards, Detachment 1 assists in the development of maintenance training for brand new acquisition systems, such as the Joint Strike Fighter and augments the mission of Detachment 5, Air Force Operational Test and Evaluation Center, through training assessment.





The Airborne Laser, the world's largest first attack laser aircraft, demonstrates its ability to refuel with help from an Edwards NKC-135E tanker crew during a test in the California skies.

Courtesy photo

## **AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS, DETACHMENT 111**

15 S. Muroc Dr.

(661) 277-2208 or DSN 527-2208

AFOSI, Detachment 111, provides special investigative services for the protection of Air Force and Department of Defense personnel, operations and material at Edwards. The unit strives to detect and provide early warning of worldwide threats to the Air Force, identify and resolve crime that threatens Air Force readiness or good order and discipline, combat threats to information systems and technologies, and detects/deters fraud in the acquisition of USAF prioritized weapons systems.

## **AIR FORCE OPERATIONAL TEST AND EVALUATION CENTER, DETACHMENT 5**

192 E. Yeager Blvd.

(661) 277-3617 or DSN 527-3617

Detachment 5, a component of the Air Force Operational Test and Evaluation Center at Kirtland Air Force Base, N.M., helps to ensure the nation's warfighters have the right tools to accomplish the mission effectively. The detachment focuses on operational testing of production representative systems, the critical follow-on process to the Air Force Flight Test Center's developmental test and evaluation emphasis. AFOTEC personnel work closely with the Test Center's combined test forces from concept development through system employment by injecting operational realism into flight test programming.

## **AIR FORCE OPERATIONAL TEST AND EVALUATION CENTER, DETACHMENT 6**

365 N. Flightline Rd.

(661) 275-3568 or DSN 525-3568

Detachment 6, which became operational Oct. 1, 2001, is the newest of AFOTEC's detachments and is responsible for the operational test and evaluation of the Air Force's new air superiority fighter, the F/A-22 Raptor. The Detachment 6 charter is to evaluate the effectiveness and suitability of the F/A-22 in an operationally realistic environment to ensure our warfighters receive the best overall air combat vehicle possible.

Detachment 6 personnel at Edwards include logisticians, engineers and pilots who work with the Air Force Flight Test Center's F/A-22 Combined Test Force. Detachment 6 also has personnel at AFOTEC Headquarters at Kirtland Air Force Base, N.M., including the F/A-22 operational test program manager, logisticians, analysts and operations support staff to provide coordination between locations.



F-22 Raptor  
U.S. Air Force photo





F-117 Nighthawks  
U.S. Air Force photo

## AIR FORCE PLANT 42 PRODUCTION FLIGHT TEST INSTALLATION Palmdale, Calif.

Air Force Plant 42 is a government-owned, contractor-operated facility with proximity to both the concentration of aerospace industry in Los Angeles and the high-speed corridors and resources of the Air Force Flight Test Center at Edwards. The facility is uniquely situated to fully support the nation's newest and most advanced commercial and military aerospace systems. Air Force Plant 42 is one of four Air Force plants located throughout the United States and differs in that it hosts three major defense contractors: Boeing, Lockheed Martin and Northrop Grumman.

The mission of Air Force Plant 42 is to provide industrial facilities for production, modification, and depot maintenance and flight test of U.S. aerospace systems.

Air Force Plant 42 is composed of the following military units as well as the three DoD contractors mentioned above:

- Aeronautical Systems Center, Detachment 1  
2503 E. Ave. P  
Palmdale, Calif.  
(661) 272-6770

Detachment 1, a component of ASC, Wright-Patterson Air Force Base, Ohio, provides command and control of Air Force Plant 42, airfield complex and industrial facilities used for production, modification, depot maintenance and flight test of U.S. aerospace systems. The unit provides security, airfield management, maintenance and engineering support, fire protection, crash and rescue, recovery and safety, information management, and contract and property management.

- 410th Flight Test Squadron/F-117 Combined Test Force  
15th St. E. and Ave. P  
Palmdale, Calif.  
(661) 572-5190

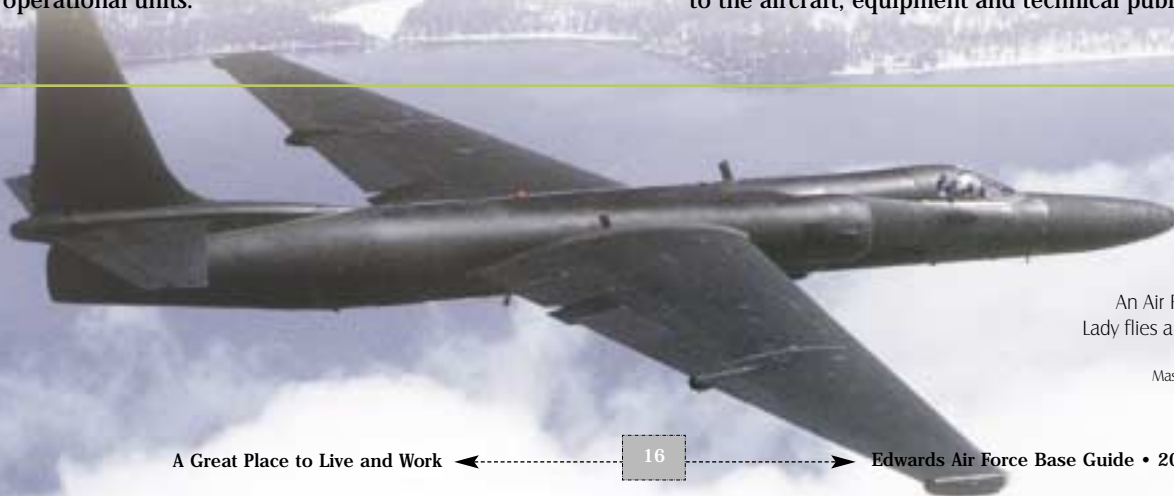
The 410th Flight Test Squadron, a part of the 412th Test Wing and Air Force Flight Test Center, provides operational F-117A support by conducting all developmental test and evaluation and depot maintenance acceptance flights prior to return to operational units.

- 645th Materiel Squadron, OL-Detachment 4  
1011 Lockheed Way  
Palmdale, Calif.  
(661) 572-1266

Detachment 4 of the 645th Materiel Squadron, a component of Aeronautical Systems Center, Wright-Patterson Air Force Base, Ohio, provides on-site management, direction and control over the acquisition, modification, maintenance, testing, training and logistics support of special purpose aircraft and other sensitive, high-priority projects as directed by the Air Force.

- Warner Robins Air Logistics Center, Detachment 2  
2030 E. Ave. M  
Palmdale, Calif.  
(661) 277-4000

Detachment 2, a unit of Warner Robins ALC, Robins Air Force Base, Ga., is the sole Air Force unit responsible for planning, conducting and reporting on all U-2 flight test programs. The unit conducts U-2 developmental and operational mission support and post-depot maintenance acceptance flights. The unit also provides quality assurance oversight of depot and flight test maintenance activity and validates technical changes to the aircraft, equipment and technical publications.



An Air Force U-2 Dragon Lady flies a training mission.

U.S. Air Force photo by  
Master Sgt. Rose Reynolds

## **AIR FORCE RESEARCH LABORATORY, PROPULSION DIRECTORATE, DETACHMENT 7**

Public Affairs Office  
5 Pollux Dr.  
(661) 275-5465 or DSN 525-5465  
www.pr.af.mil

Development of rocket propulsion technologies for current and future Air Force space and missile systems is the responsibility of the Air Force Research Laboratory's Propulsion Directorate at Edwards Air Force Base.

The Air Force Research Laboratory, headquartered at Wright-Patterson Air Force Base, Ohio, encompasses all Air Force research and development with directorates and facilities throughout the United States.

The directorate here has devoted its efforts to the discovery, development and application of scientific and engineering answers to national defense rocket propulsion needs for more than 50 years.

More than 250 scientists, engineers, technicians and support staff advance this technology area. They are assisted by additional on-site contractors and base support organizations.

The Propulsion Directorate is the development center for all Air Force rocket and missile propulsion technologies including propellants, combustion, characterization of exhaust plumes, and the materials and structures unique to rocket propulsion. Nearly every U.S. rocket-propelled system used today for tactical operations, ballistic launch, space launch and space operations can trace its technology back to this facility.

The directorate's unique state-of-the-art research equipment and physical assets cover more than 65 square miles of Edwards. They include static rocket test stands capable of holding test firings up to 10 million pounds of thrust.

Known historically as the 'Rocket Site,' its current efforts are devoted to a national master plan for rocket propulsion technology research involving all military services, NASA and the rocket industry. Called IHPRPT or Integrated High Payoff Rocket Propulsion Technology, this research, coupled with advanced propulsion concept demonstrations will push the advancement of rocket propulsion technology into the new century.

## **AREA DEFENSE COUNSEL**

20 W. Popson Ave.  
(661) 277-2809 or DSN 527-2809

The Area Defense Counsel, the equivalent of a public defender, serves to advocate for military members involved in administrative or punitive action taken by commanders. The counsel focuses on legal issues pertaining to military justice such as letters of reprimand, Articles 15, courts-martial and medical or flying evaluation boards.

## **ARMY AND AIR FORCE EXCHANGE SERVICE**

W. 240 Fitzgerald Blvd.  
(661) 258-1078

In a continuing effort to improve quality of life at Edwards Air Force Base, the Army and Air Force Exchange Service provides the community with services, products and retail facilities from the Shoppette complex with a Class Six and Pizza Hut to a car care center with 24-hour credit card reader gas dispensers and Enterprise Car Rental.

Located in the 73,000-square-foot Base Exchange complex is military clothing sales, beauty and barbershops, a same-day optical shop, a florist, a video arcade, cellular phone store, alterations shop, a General Nutrition Center and an Armed Forces Bank. Additionally, the exchange food court houses Anthony's Pizza, Baskin Robbins, Popeye's Chicken, Robin Hood and Taco Bell Express.

AAFES provides other food franchises, concessions and snack bars, including Burger King, the Thai Garden restaurant and cafeterias at South Base, NASA and at Mary's Place located in Bldg. 1600. For further shopping convenience, AAFES features a Shoppette complex with a Class Six, dry cleaners and laundromat. There is also a Troop Store with a barbershop on base.

## **CIVIL AIR PATROL EDWARDS AIR FORCE BASE COMPOSITE, SQUADRON 84**

Muroc Manor, Bldg. 16  
Rest Road, South Base  
(661) 277-6543 or DSN 527-6543

The Civil Air Patrol is the official auxiliary of the U.S. Air Force and has three missions: fostering internal and external aerospace education; operating a cadet program including aerospace education, leadership training, physical fitness, moral leadership and an opportunity to learn to fly; and supporting emergency services through search and rescue, disaster relief and humanitarian services.

## **DEFENSE COMMISSARY AGENCY**

312 W. Fitzgerald Ave.  
(661) 277-4589 or DSN 527-4589

The Defense Commissary Agency aims to ensure military readiness and retention of quality personnel by providing a valuable part of the military compensation package. The Edwards Commissary strives to enhance quality of life by providing groceries and household supplies at-cost resale value. The commissary is open Tuesday through Friday 9:30 a.m.-7 p.m., Saturday 9 a.m.-6 p.m. and Sunday 10 a.m.-6 p.m. A full-service deli, bakery and meat counter is available.





Marine Cpl. Edward Collaao washes out a helicopter at the Marine Aircraft Group 46, Detachment Bravo hangar after a mission.  
Photo by Michael Yncera

Photo by Thomas Powell

## **MARINE AIRCRAFT GROUP 46, DETACHMENT BRAVO**

199 S. Wolfe Ave.  
(661) 275-3450 or 275-3446

Two Marine Corps Reserve helicopter squadrons and support staff representing the command at Marine Corps Air Station Miramar, Calif., relocated to Edwards in May 1999 following the closure of Marine Corps Air Station El Toro, Calif. There are more than 350 Marines and sailors with about half living in the local area and the others commuting from their homes throughout California and the United States.

Marine Heavy Helicopter Squadron 769—or HMH-769—operates 11 CH-53E Super Stallions. Their mission is to transport heavy equipment, weapons and supplies during ship-to-shore movements and amphibious assaults.

Marine Medium Helicopter Squadron 764—or HMM-764—operates 13 CH-46E Sea Knights. Their mission is to transport combat troops in initial assault waves and follow-on stages of amphibious operations ashore.

Both squadrons primarily support Marines at Camp Pendleton and 29 Palms—both located in California while assisting Team Edwards with VIP transport, medical evacuations, photo and shuttle landing support and other assistance during base and community emergencies.

## **DEFENSE SECURITY SERVICE**

70 E. Forbes Ave.  
(661) 277-4865, 277-3287 or 277-8753

The Defense Security Service conducts personnel security investigations for civilian, military and industrial personnel who require access to classified Department of Defense information.

## **FEDERAL AVIATION ADMINISTRATION HIGH DESERT TERMINAL RADAR APPROACH CONTROL**

100 E. Sparks Rd.  
(661) 258-6300 or DSN 527-2023

The FAA's High Desert TRACON, radio call sign Joshua Approach, provides mission-related air traffic control services to Department of Defense and DoD-sponsored aircraft within the entire R-2508 airspace complex, encompassing nearly 25,000 square miles.

The TRACON's Department of Transportation, FAA civilian personnel also provide air traffic control services to civil aircraft within and outside the special-use airspace.

## **CONTRACTORS**

- Ace Engineering, Inc. (SABER), (661) 277-1750
- AMPB Security Services, (661) 277-3714
- Bell-Boeing Company (CV-22), (661) 277-6868, Ext. 2788
- The Boeing Company, (661) 275-3169/FAX (661) 277-0650
- Chugach Management Services, Inc.,  
(Family Housing Maintenance), (661) 258-1044
- E-Med Tech, Inc. (AFRL Ambulance and EMTs), (661) 275-5333

- ERC (AFRL Research in Propulsion Sciences), (661) 275-6178
- General Electric, (661) 277-7347
- Integrated Technology Works, Inc./Teltara, Inc.,  
(joint venture custodial services), (661) 258-4181
- JT3 (J-TECH), (661) 277-9107
- J. Torres Company (refuse/recycling), (661) 277-3867
- Linker Services (Food Service), (661) 258-4021
- Lockheed Martin Marietta (F/A-22), (661) 277-5804

The Dryden Flight Research Center, NASA's primary installation for aeronautical flight research, was created in 1946. Dryden is NASA's "Center of

Excellence" for atmospheric flight operations. Its charter is to research, develop, verify and transfer advanced aeronautics, space and related technologies.

In addition to carrying out aeronautical research, the center also supports the space shuttle program as a backup landing site. Dryden's history dates back to late 1946, when 12 employees arrived at what is now Edwards Air Force Base from the National Advisory Committee for Aeronautics (NACA) Langley Memorial Aeronautical Laboratory, Hampton, Va. Their goal was to prepare for X-1 supersonic research flights in a joint NACA-Army Air Forces-Bell Aircraft program. The NACA was NASA's predecessor.

Since the days of the X-1, the first aircraft to fly faster than the speed of sound, the center has grown in size and significance and is associated with many important milestones in aviation: supersonic and hypersonic flight, wingless lifting bodies, fly-by-wire, supercritical and forward-swept wings and space shuttles.

Dryden continues to pioneer programs that support NASA's Aerospace Technology Enterprise by contributing to revolutionary leaps in technology, access to space at reduced cost and global civil aviation.

The Airborne Science Program supports the requirements of NASA's Earth Science Enterprise. Dryden maintains and operates two ER-2s and a DC-8.

## NASA DRYDEN FLIGHT RESEARCH CENTER

Public Affairs Office, Lilly Dr.

(661) 276-3449

[www.dfrc.nasa.gov](http://www.dfrc.nasa.gov)

These aircraft collect data for many experiments in support of projects serving the world scientific community. Included in this community are

NASA, other government agencies, academia and private industry.

Dryden has been the site of 49 space shuttle landings since the first orbital flight in April 1981. After an Edwards' landing, shuttle orbiters are serviced at Dryden for ferry flights back to Kennedy Space Center in Florida atop one of NASA's two modified Boeing 747 Shuttle Carrier Aircraft. Although KSC is the primary landing site for all shuttle missions, Dryden remains an alternate landing site for missions when bad weather hits Florida or in case of a post-launch or other emergency.

Along with research and support aircraft, Dryden assets include a high-temperature and loads-calibration laboratory; aircraft flight-instrumentation capability; a flow-visualization facility to study flow patterns; a data-analysis facility to process flight research data; and remotely-piloted vehicle flight research expertise.

In addition, Dryden's Research Aircraft Integration Facility simultaneously checks aircraft flight controls, avionics, electronics and other systems. It is the only facility of its type in NASA and is designed to speed up and enhance systems integration and preflight checks on research aircraft. From a handful of engineers who established the center in the late 1940s, Dryden now employs approximately 1,300 civilian and contract workers.



## U.S. ARMY VETERINARY SERVICE

900 Kincheloe Ave.

(661) 275-PETS or DSN 525-7387

The U.S. Army Veterinary Service provides comprehensive veterinary care to all government-owned animals such as the 95th Security Forces Squadron's military working dogs, and to all service members' privately-owned animals through the Veterinary Treatment Facility. The service ensures disease prevention and control programs on base and the compliance of all commercial and military food establishments with sanitary standards. The service also maintains a liaison with local veterinary professional organizations in order to provide assistance during civic emergencies.

- Lockheed Martin Fort Worth (F-16), (661) 277-4216/FAX (661) 277-2645
- N & N Travel Services, (official travel only), (661) 277-3160
- Northrop/Grumman (B-2), (661) 275-0004/FAX (661) 266-5360
- Northrop/Grumman (RAC), (661) 275-0609
- Pratt & Whitney, (661) 275-4193/FAX (661) 258-6523
- Raytheon Aerospace, (661) 277-9777 or 277-9790

- Spiral Technology, (AFRL Advanced Research and Engineering Support), (661) 275-5678
- Sverdrup Technology, (AFRL Research Operations Support Services), (661) 275-5618
- TYBRIN, (661) 277-0096
- J.K. Hill & Associates, Inc., (661) 277-3522
- Veridian Engineering, (661) 277-9537 or (661) 277-2764